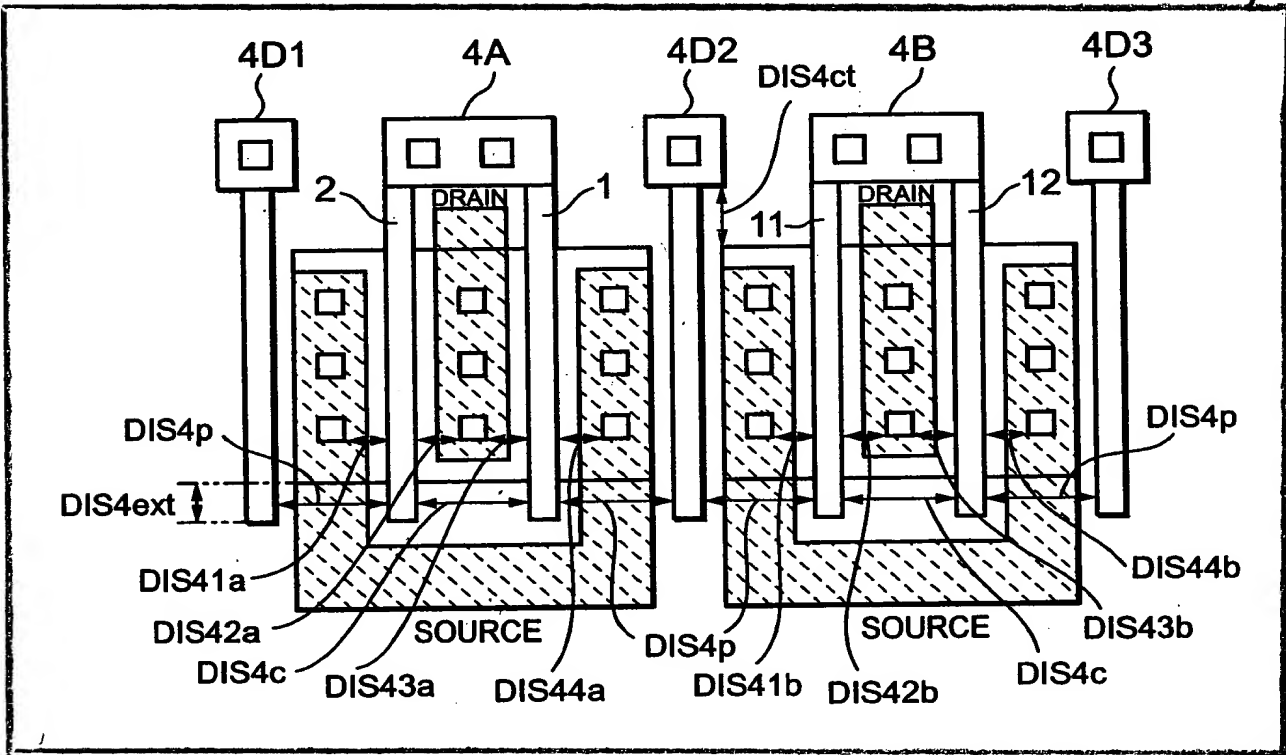


Fig.2

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Fig.3

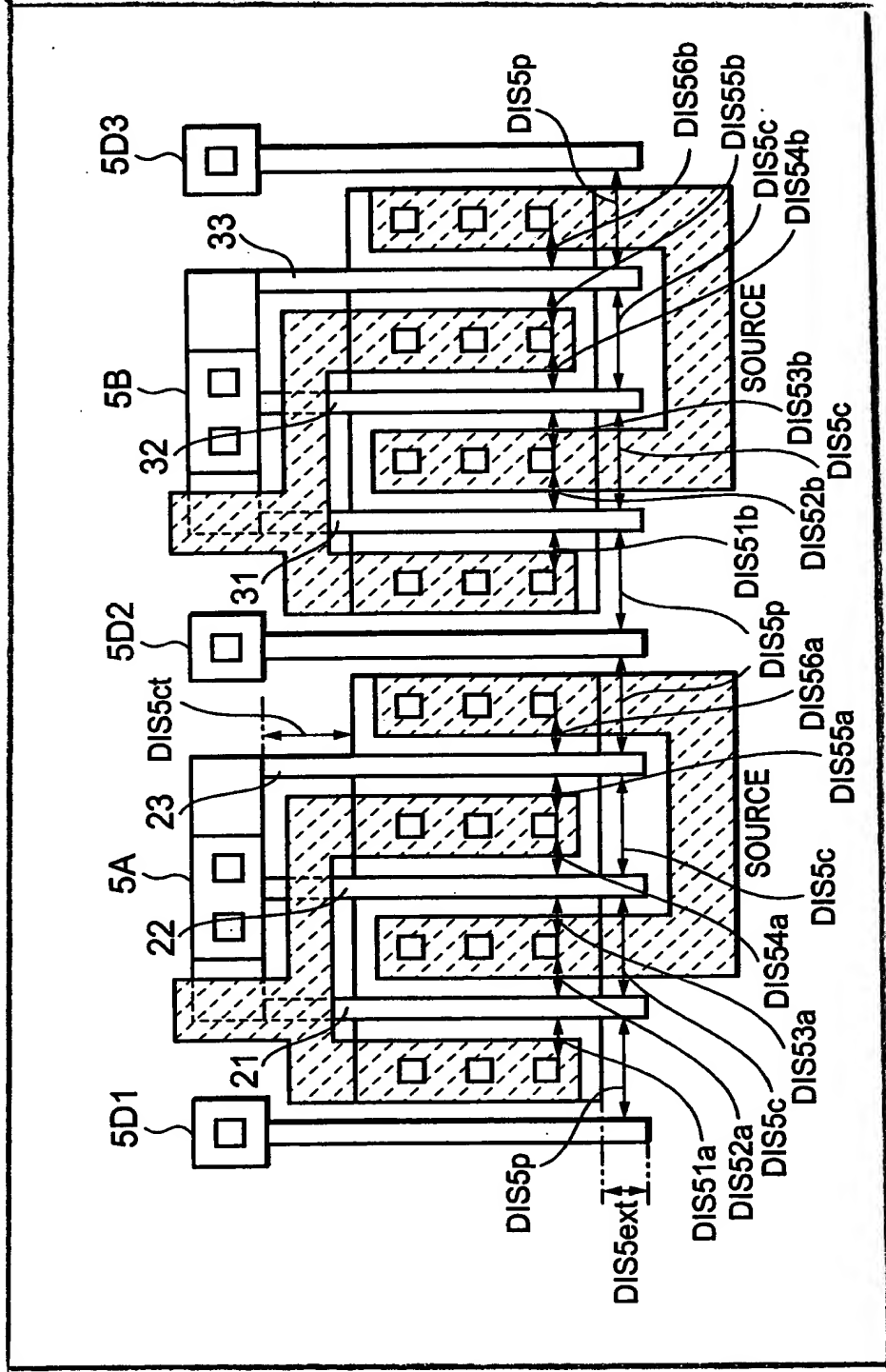


Fig.4

[TABLE 1] EXPECTED $W=10\mu\text{m}$
DISPERSION($\Delta W=0.2\mu\text{m}$)
<AS ESTIMATED>

NUMBER OF GATES	(a) MASK-DESIGN VALUE	(b) DISPERSION (ΔW)	(c) ACTUAL GATE WIDTH	(d) SUM OF ACTUAL GATE WIDTHS
1	10.2	0.2	10	10
2	5.2	↓	5	10
3	3.54	↓	3.34	10.02
4	2.7	↓	2.5	10
5	2.2	↓	2	10
6	1.87	↓	1.67	10.02

[TABLE 2] EXPECTED $W=15\mu\text{m}$
DISPERSION($\Delta W=0.2\mu\text{m}$)
<AS ESTIMATED>

NUMBER OF GATES	(a) MASK-DESIGN VALUE	(b) DISPERSION (ΔW)	(c) ACTUAL GATE WIDTH	(d) SUM OF ACTUAL GATE WIDTHS
1	15.2	0.2	15	15
2	7.7	↓	7.5	15
3	5.2	↓	5	15
4	3.96	↓	3.76	15.04
5	3.2	↓	3	15
6	2.7	↓	2.5	15

[TABLE 3] EXPECTED $W=10\mu\text{m}$
DISPERSION($\Delta W=0\mu\text{m}$)
<ESTIMATION $\Delta W=0.2\mu\text{m}$ >

NUMBER OF GATES	(a) MASK-DESIGN VALUE	(b) DISPERSION (ΔW)	(c) ACTUAL GATE WIDTH	(d) SUM OF ACTUAL GATE WIDTHS
1	10.2	0	10.2	10.2
2	5.2	↓	5.2	10.4
3	3.54	↓	3.54	10.64
4	2.7	↓	2.7	10.8
5	2.2	↓	2.2	11
6	1.87	↓	1.87	11.22

[TABLE 4] EXPECTED $W=15\mu\text{m}$
DISPERSION($\Delta W=0\mu\text{m}$)
<ESTIMATION $\Delta W=0.2\mu\text{m}$ >

NUMBER OF GATES	(a) MASK-DESIGN VALUE	(b) DISPERSION (ΔW)	(c) ACTUAL GATE WIDTH	(d) SUM OF ACTUAL GATE WIDTHS
1	15.2	0	15.2	15.2
2	7.7	↓	7.7	15.4
3	5.2	↓	5.2	15.6
4	3.96	↓	3.96	15.84
5	3.2	↓	3.2	16
6	2.7	↓	2.7	16.2

[TABLE 5] EXPECTED $W=10\mu\text{m}$
DISPERSION($\Delta W=0.4\mu\text{m}$)
<ESTIMATION $\Delta W=0.2\mu\text{m}$ >

NUMBER OF GATES	(a) MASK-DESIGN VALUE	(b) DISPERSION (ΔW)	(c) ACTUAL GATE WIDTH	(d) SUM OF ACTUAL GATE WIDTHS
1	10.2	0.4	9.8	9.8
2	5.2	↓	4.8	9.6
3	3.54	↓	3.14	9.42
4	2.7	↓	2.3	9.2
5	2.2	↓	1.8	9
6	1.87	↓	1.47	8.82

[TABLE 6] EXPECTED $W=15\mu\text{m}$
DISPERSION($\Delta W=0.4\mu\text{m}$)
<ESTIMATION $\Delta W=0.2\mu\text{m}$ >

NUMBER OF GATES	(a) MASK-DESIGN VALUE	(b) DISPERSION (ΔW)	(c) ACTUAL GATE WIDTH	(d) SUM OF ACTUAL GATE WIDTHS
1	15.2	0.4	14.8	14.8
2	7.7	↓	7.3	14.6
3	5.2	↓	4.8	14.4
4	3.96	↓	3.56	14.24
5	3.2	↓	2.8	14
6	2.7	↓	2.3	13.8

Fig.5

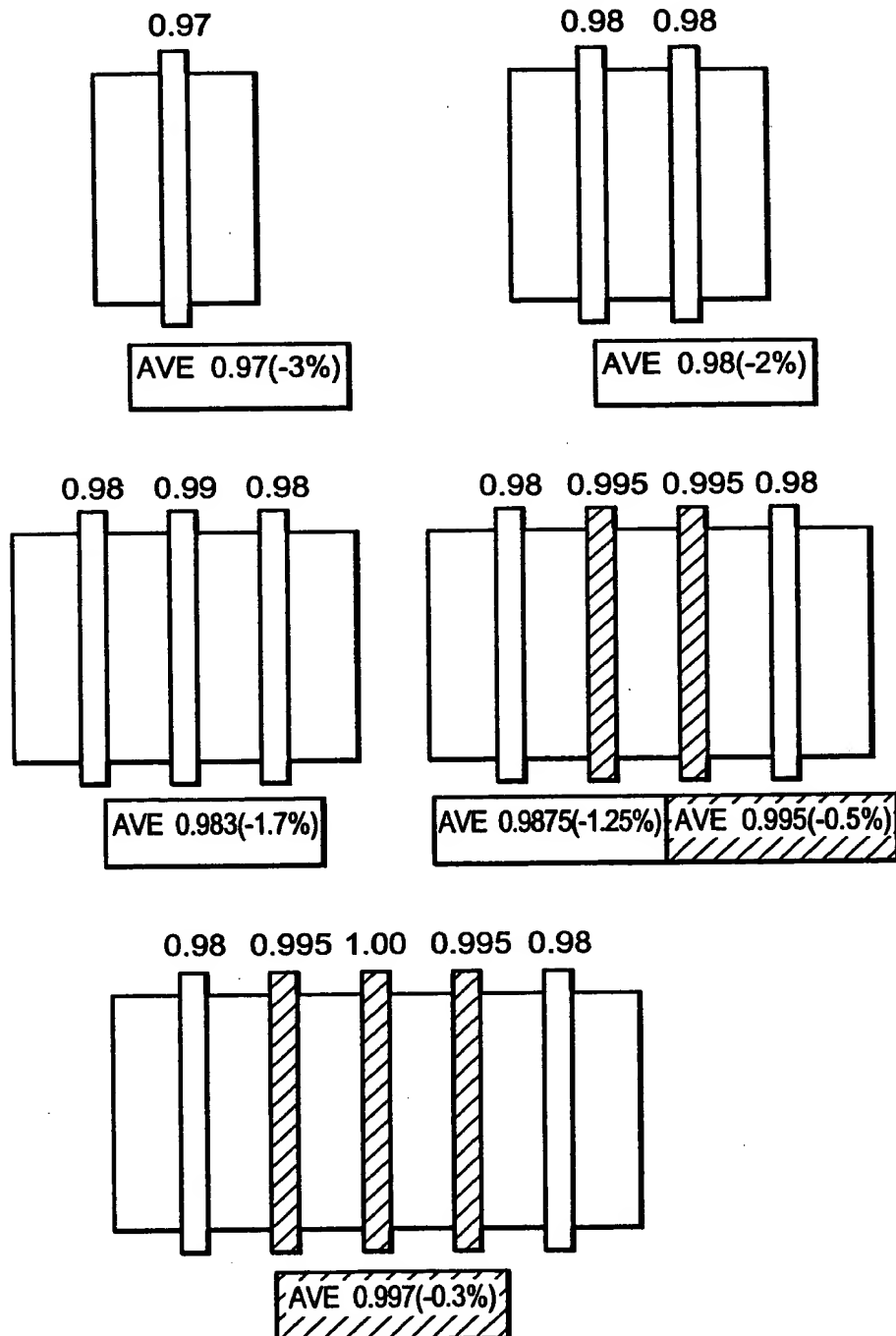
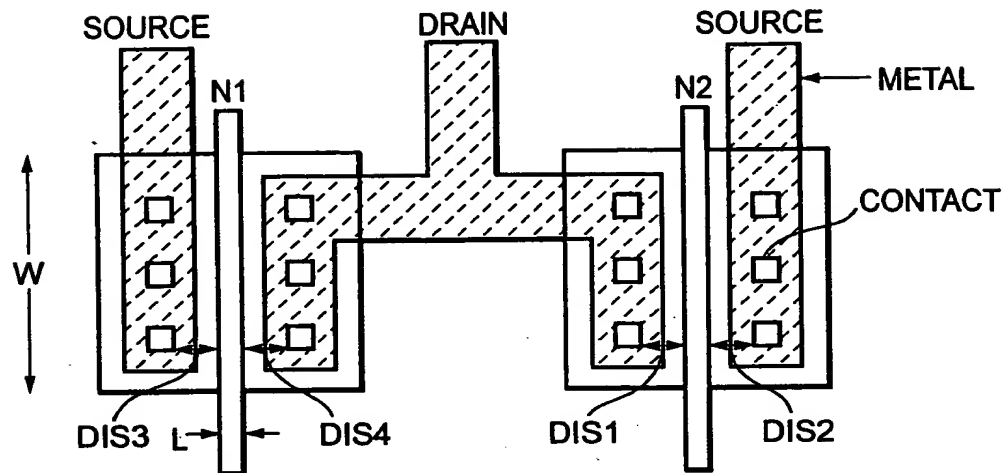
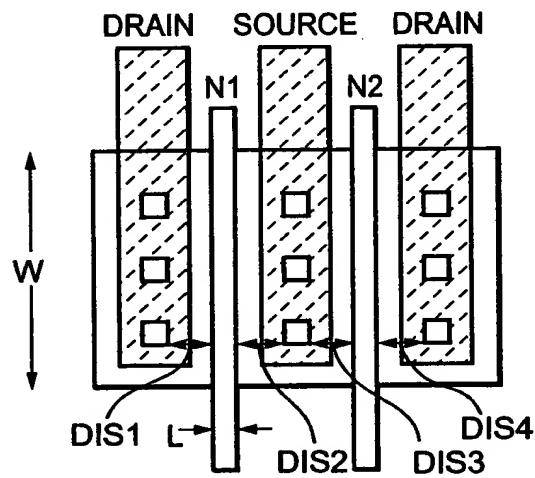
L MASK=1.0 μ m VS ACTUAL SIZE L POLY

Fig.6 PRIOR ART**Fig.7 PRIOR ART****Fig.8 PRIOR ART**